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1) (Amended) Method for preventing signal coupling between two or more chip-based mounted piezoelectric resonator sensors (G'; G'') in a sensor system wherein
5 the sensors are connected in series or parallel and each sensor (G'; G'') has a flowcell body (C'; C'') provided with its own resonator (3'; 3'') connected to its own oscillator circuit (29'; 29'') and its own power supply (35'; 35''), characterised by the steps of providing each sensor (G'; G'') with its own, individual conducting shield (44'; 44'') which substantially surrounds said oscillator circuit (29'; 29'') and by
10 connecting said conducting shield (44'; 44'') to one pole of the power supply (35'; 35'').

2) Method in accordance with claim 1 wherein each said shield (44'; 44'') substantially surrounds its respective flowcell body (C'; C'').

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3) Method in accordance with claim 1 or 2 characterised in that the step of providing each sensor (G', G'') with its own, individual conducting shield (44', 44'') which substantially surrounds said sensor (G'; G'') comprises the steps of making a flowcell body (C', C'') out of a non-conducting material and coating substantially all
20 of the outer surfaces of said flowcell body with a conducting material.

4) (Amended) Method in accordance with claim 1 wherein each said shield (44'; 44'') does not surround its respective flowcell body (C'; C'').

25 5) (Amended) Piezoelectric resonator sensor comprising a body (C'; C'')

comprising a resonator (3'; 3'') connected to an oscillator circuit (29'; 29'') and a power supply (35'; 35'') characterised in that said oscillator circuit (29'; 29'') is substantially surrounded by a conducting shield (44'; 44'') which shield (44'; 44'') is connectable to one pole of the power supply (35'; 35'').

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6) (Added) Piezoelectric resonator sensor in accordance with claim 4-5 characterised in that said conducting shield substantially surrounds said body (C'; C'').

10 7) (Added) Piezoelectric resonator sensor in accordance with claim 5 characterised in that said conducting shield does not surround respective said body (C'; C'').